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ROTATEMP lo-vi Package

/// Data Sheet

The ROTATEMP lo-vi Package is the ideal solution for precise and reliable viscosity measurement of difficult-to-measure, highly viscous samples.

The package combines the ROTAVISC lo-vi rotational viscometer with the ROTATEMP high-temperature system to ensure optimum temperature control during the measurement process.

ROTAVISC lo-vi is a high-performance rotational viscometer for applications in a measuring range from 1 to 6,000,000 mPas.

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The space-saving ROTATEMP high-temperature system is the perfect complement for measuring temperature-dependent samples that are not able to flow at room temperature, such as asphalt, bitumen, wax, polymers, candy base or hot melt adhesives. Thanks to precise and efficient temperature control, based on the proven IKA magnetic stirrer technology, samples can be heated up to 300 °C in just 16 minutes without overheating. This allows precise and reproducible measurements to be carried out.

YOUR BENEFITS:
- Fast, precise and reproducible results: The combination of ROTAVISC viscometer and ROTATEMP high-temperature system simplifies the viscosity measurement of difficult-to-measure, highly viscous samples.
- Simple operation and space-saving: The complete system is supplied ready for connection. With its space-saving design, it fits easily into any laboratory.
- Optimum compatibility and automation: ROTAVISC and ROTATEMP are compatible with the labworldsoft® laboratory software, which makes it easy to automate, control and document your measurement results.

Scope of delivery
•ROTAVISC lo-vi control S000
•ROTASTAND
•ROTATEMP
•SP set-1
•PT 100.8

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Technical Data

Viscosity Measuring Range [mPas]	6000000
Viscosity Accuracy (FSR) [%]	1
Viscosity Repeatibility (FSR) [%]	0.2
Spring torque [mNm]	0.0673
Guard rail	lo-vi
Measuring spindle series	SP set-1
Motor rating output [W]	4.8
Overload protection	yes
Direction of rotation	right
Display	TFT
Speed display	TFT
Speed range [rpm]	0.01 - 200
Setting accuracy speed [rpm]	±0.01
Speed adjustment	TFT
Torque display	yes
Torque measurement	yes
Timer	yes
Timer display	TFT
Time setting range [min]	0.017 - 6000
Temperature measurement resolution [K]	0.1
Working temperature display	TFT
Connection for ext. temperature sensor	PT 100
Graph function	yes
Operating mode	timer and continuous operation
Calibration option	yes
Touch function	yes
Pemitted density [kg/dm3]	9999
Working temperature [°C]	-100 - 300
Fastening on stand	extension arm
Support rod diameter (with integrated fastening on stand) [mm]	16
Telescope stand stroke [mm]	200
Plug-in coupling (Ø) [mm]	12
Basic container volume [ml]	600
Stand	Rotastand
Stroke max. [mm]	61
Diameter [mm]	16
Dynamic load [kg]	5
Dimensions (W x H x D) [mm]	351 x 629 x 372
Weight [kg]	7.1
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 40
RS 232 interface	yes
USB interface	USB-B
Voltage [V]	100 - 240
Frequency [Hz]	50/60
Power input [W]	24
Power input standby [W]	1.6

DC Voltage [V=]	24
Current consumption [mA]	1000